

University of Pretoria Yearbook 2017

Cell and tissue techniques 316 (ANA 316)

Qualification	Undergraduate
Faculty	Faculty of Health Sciences
Module credits	18.00
Programmes	BSc Medical Sciences
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	ANA 226
Contact time	2 lectures per week, 1 practical per week
Language of tuition	Module is presented in English
Academic organisation	Anatomy
Period of presentation	Semester 1

Module content

General introduction to light and electron microscopic techniques: fixation, processing, imbedding, staining. Principles of different staining techniques for LM and EM: routine stains, proteins, carbohydrates, amino acids, metachromasia, immunocytochemistry, lectin stains, specialised stains. Principles of the operation of LM and EM: general LM, fluorescent microscopy, differential contrast microscopy, dark field microscopy, phase contrast microscopy, transmission and scanning electron microscopy.

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